

## FORM 6 - K

**SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

**Report of Foreign Private Issuer  
Pursuant to Rule 13a - 16 or 15d - 16 of  
the Securities Exchange Act of 1934**

**As of 6/18/2025**

**Ternium S.A.**  
(Translation of Registrant's name into English)

**Ternium S.A.**  
26, Boulevard Royal, 4th floor  
L-2449 Luxembourg  
(352) 2668-3152  
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or 40-F.

Form 20-F  Form 40-F

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12G3-2(b) under the Securities Exchange Act of 1934.

Yes  No

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):  
**Not applicable**

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The attached material is being furnished to the Securities and Exchange Commission pursuant to Rule 13a-16 and Form 6-K under the Securities Exchange Act of 1934, as amended.

This report contains Ternium S.A.'s presentation during the June 18, 2025 meeting with analysts.

SIGNATURE

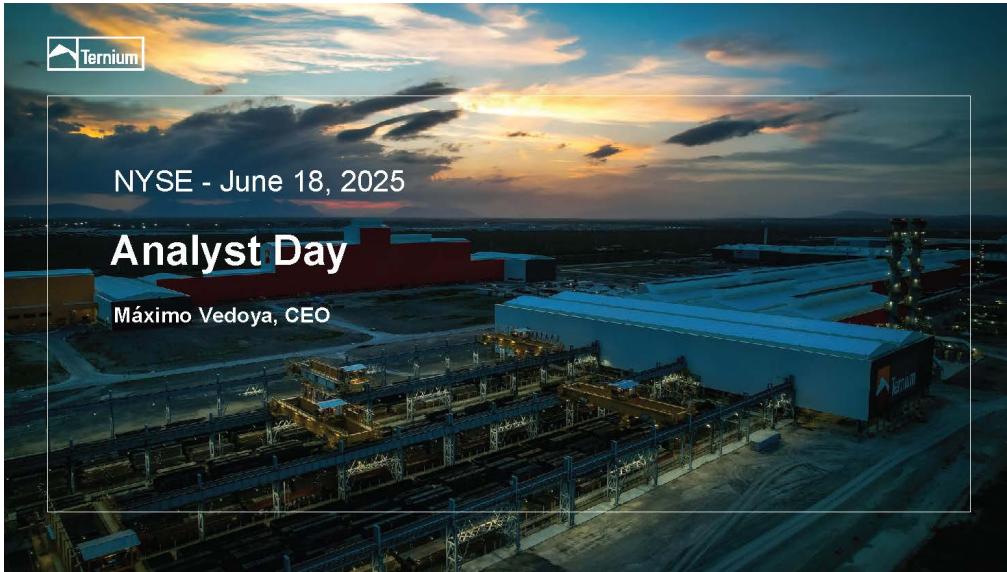
Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

TERNIUM S.A.

By: /s/ Guillermo Etchepareborda      By: /s/ Sebastián Martí  
Name: Guillermo Etchepareborda      Name: Sebastián Martí  
Title: Attorney in Fact      Title: Attorney in Fact

Dated: June 18, 2025

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## Forward-Looking Statements and Non-IFRS Alternative Performance Measures

This presentation contains certain forward-looking statements and information relating to Ternium S.A. and its subsidiaries (collectively, "Ternium") that are based on the current beliefs of its management as well as assumptions made by and information currently available to Ternium. Such statements reflect the current views of Ternium with respect to future events and are subject to certain risks, uncertainties and assumptions. Many factors could cause the actual results, performance or achievements of Ternium to be materially different from any future results, performance or achievements that may be expressed or implied by such forward-looking statements, including, among others, changes in general economic, political conditions in the countries in which Ternium does business or other countries which have an impact on Ternium's business activities and investments, changes in interest rates, changes in inflation rates, changes in exchange rates, the degree of growth and the number of consumers in the markets in which Ternium operates and sells its products, changes in steel demand and prices, changes in raw material and energy prices or difficulties in acquiring raw materials or energy supply cut-offs, changes in business strategy and various other factors.

Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those described herein as anticipated, believed, estimated, expected or targeted. Ternium does not intend, and does not assume any obligation, to update these forward-looking statements.

This presentation includes certain non-IFRS alternative performance measures such as Adjusted Net Result, Adjusted Equity Holders' Net Result, Adjusted Earnings per ADS, Adjusted EBITDA, Cash Operating Income, Net Cash and Free Cash Flow. The reconciliation of these figures to the most directly comparable IFRS measures is included in Ternium's applicable quarterly results Press Release in Exhibit I. These non-IFRS measures should not be considered in isolation of, or as a substitute for, measures of performance prepared in accordance with IFRS. These non-IFRS measures do not have a standardized meaning under IFRS and, therefore, may not correspond to similar non-IFRS financial measures reported by other companies.

# Agenda

TERNIUM PROFILE & BUSINESS CONTEXT →

MEXICO →

BRAZIL →

ARGENTINA →

ENHANCING OPERATIONAL EFFICIENCY →

CONCLUSION →



## Ternium Profile

Broad presence in Latin America's main steel markets



**\$17.6 B**

2024 Net sales



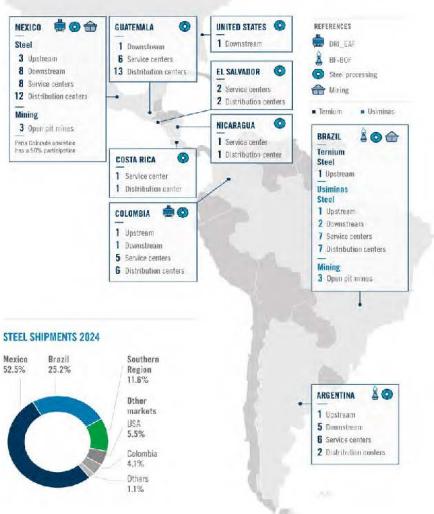
**15.6 M**

2024 Steel shipments



**34,000**

Employees



**22.3**

Note: In million metric tons. Including Usiminas.

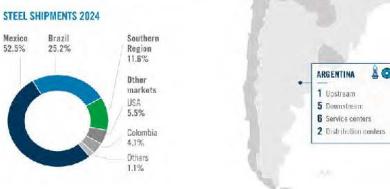


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Iron Ore Production Capacity



Integrated Facilities



## Business Context

Uncertainty as the main market force

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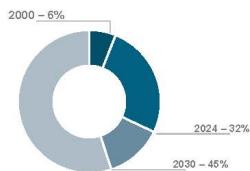
CHINA'S UNFAIR  
TRADE PRACTICES  
HARMING GLOBAL  
MANUFACTURING

U.S. RESPONSE:  
TRADE ACTION

RISING  
UNCERTAINTY  
IN THE GLOBAL  
ECONOMY

SHIFT FROM  
GLOBALIZATION TO  
REGIONALIZATION

China share of global manufacturing



IMF economic growth projection revision

	2023	2024	2025p Jan 25	2025p Apr 25	Apr 25 vs. Jan 25 [pp]
World	3.5	3.3	3.3	2.8	-0.5
China	5.4	5.0	4.6	4.0	-0.6
USA	2.9	2.8	2.7	1.8	-0.9
Europe	0.4	0.9	1.0	0.8	-0.2
Mexico	3.3	1.5	0.8	-0.3	-1.1
Brazil	3.2	3.4	2.2	2.0	-0.2
Argentina	-1.6	-1.7	5.0	5.5	+0.5
Colombia	0.7	1.7	2.5	2.4	-0.1

Ternium May 2025

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Mexico

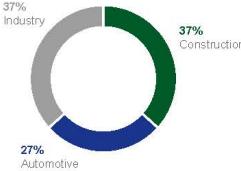


## Mexican Steel Market

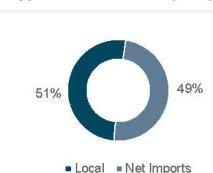
Attractive market with a significant demand for high-end steel products

- Continuous growth of steel demand during the last decades.
- Strong development of manufacturing industry.
- Ternium is well positioned to substitute steel imports.
- Leader in Mexico's flat steel market.
- Substantial expansion of product range in the last ten years.
- Expansion projects to further strengthen competitive position.

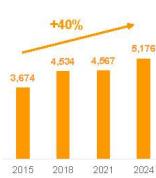
Steel shipments by sector (2024)



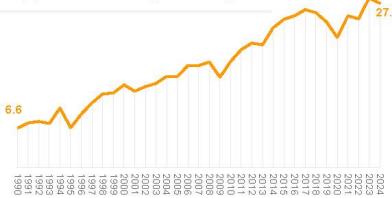
Apparent flat steel use (2024)



TX industrial shipments (Kton/year)



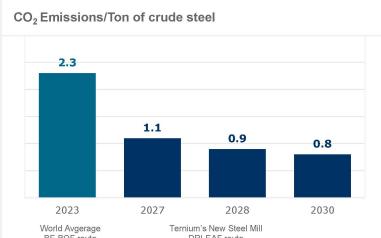
Apparent steel use (million tons)



## Mexican Steel Market

New slab mill set to enhance competitive position in USMCA

- First EAF-based slab mill that will produce exposed automotive steel.
- Less than half CO<sub>2</sub> emission intensity than previously possible.
- Proprietary low-nitrogen steel production process developed by Ternium.
- Melted and poured in the USMCA to strengthen competitive position.
- Reduction of operating costs.
  - More efficient programming of production facilities.
  - Simplified internal logistics.



2027 – New steel slab mill

54% lower CO<sub>2</sub> emissions vs. BF-BOF average

Low-Emission Steelmaking

- Steel slabs through the DRI/EAF route
- Higher scrap use (from ~13% to 35%)

2028 – Renewable energy

15% additional decrease in CO<sub>2</sub> emissions

Green Energy Input

- 50% renewable energy for DRI-EAF
- <300,000 tCO<sub>2</sub>/year Scope 2 reduction

2030 – CCU and CCS solutions

11% additional decrease in CO<sub>2</sub> emissions

Carbon Capture

- CCU/CCS adoption pending market & regulatory conditions

\*Note: Emission intensity includes scope 1, 2 & 3 Cat 1. GHG Protocol methodology

## Mexican Steel Market

Enhanced capabilities to offer differentiated products and services

- Broadened product portfolio

New qualities and a new dimensional range for automotive, industrial and construction applications.

- Accelerated introduction of new products

Through Ternium Lab's rapid certification process.

- Enhanced customer service

Supported by reduced lead times and a strengthened supply chain.

- Productivity and efficiency gains

Resulting from streamlined production routes and simplified internal logistics.

### HIGH-END PRODUCTS ADDITIONS TO TERNIUM'S PORTFOLIO

#### PHASE I - 2012

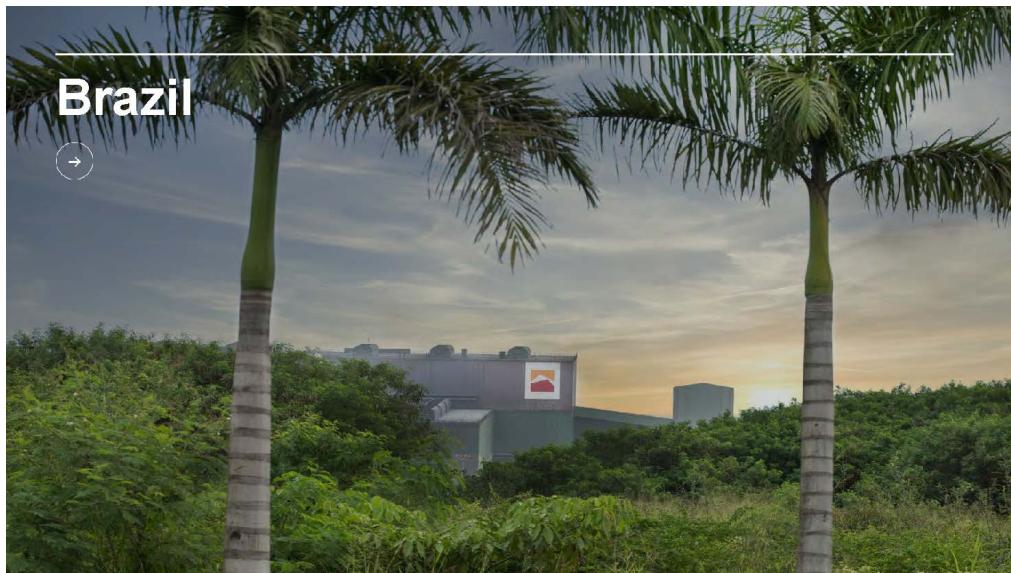
High-end automotive galvanized & galvannealed products

#### PHASE II - 2021

Hot-rolled advanced high-strength steel  
Hot-rolled ultra high-strength steel  
Oil & gas sour-service grades

#### PHASE III - 2026

Low-CO<sub>2</sub> automotive steel  
Exposed pickled & oiled steel  
Cut-to-length stress-relieved high-strength steel  
Galvanized medium-gauge high-strength steel  
Galvanized-based coatings



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Brazil

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## Brazilian Steel Market

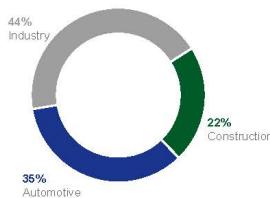
Sophisticated market with significant industrial sector

- Steel consumption recovering in the last few years (+9% in 2024).
- Vehicle production growing strongly (+10% in 2024).
- Chinese steel imports continue to be a concern.
- Flat steel imports were 26% of demand YTD, well above the 5-year average of 17%.
- China imports accounted for 76% of flat steel imports YTD.
- Import quota system renewed for 12 months, but additional measures are needed.

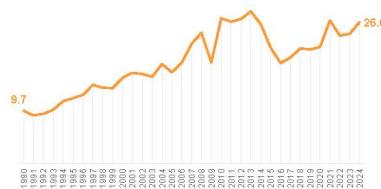
### ANTI-DUMPING MEASURES ON STEEL IMPORTS UNDER REVIEW:

- Hot-rolled products: Investigation of imports from China (initiated in Jun'25).
- Cold-rolled products: Positive determination on imports from China (without preliminary duties).
- Coated products: Investigation of imports from China (initiated in Sep'24).
- Plate products: Sunset review on imports from China, South Korea and Ukraine.

Steel shipments by sector (2024)



Apparent steel use (million tons)

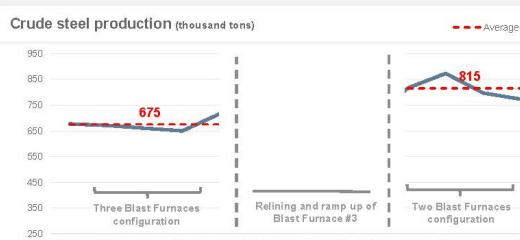


## Brazilian Steel Market - Usiminas

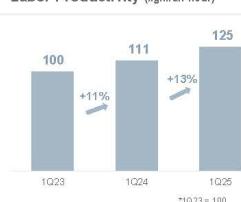
Enhancing operational efficiency

### KEY DEVELOPMENTS

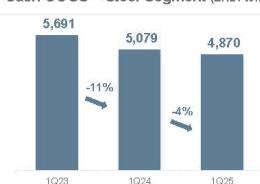
- New VPs organizational structure
- Increase in production volumes
- Fuel rate reduction
- Coke rate reduction
- Decrease of natural gas consumption
- Improved metallic mix
- Increase in labor productivity
- Renegotiated gas supply contracts



Labor Productivity (kg/man-hour)



Cash COGS – Steel Segment (BRL / ton)



# Argentina



## Argentine Steel Market

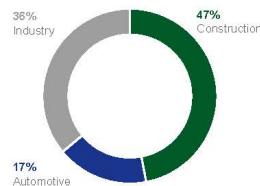
Broad based recovery of steel demand

- Macroeconomic reforms driving recovery of economic growth.
- Sectorial data point to improved activity in several steel consuming industries.
- Vehicle manufacturing expected to increase 8% in 2025.
- Energy and mining activity achieving new record highs.
- Additional reforms expected to further enhance investor confidence and stimulate investment.

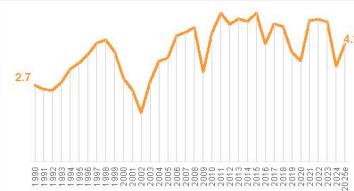


Terium Analyst Day 2025

Steel shipments by sector (2024)

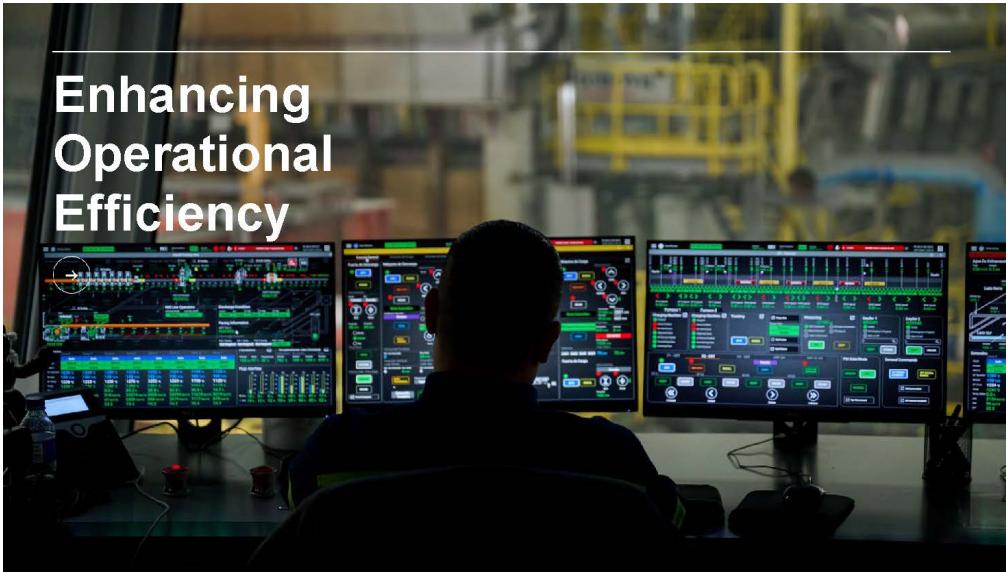


Apparent steel use (million tons)



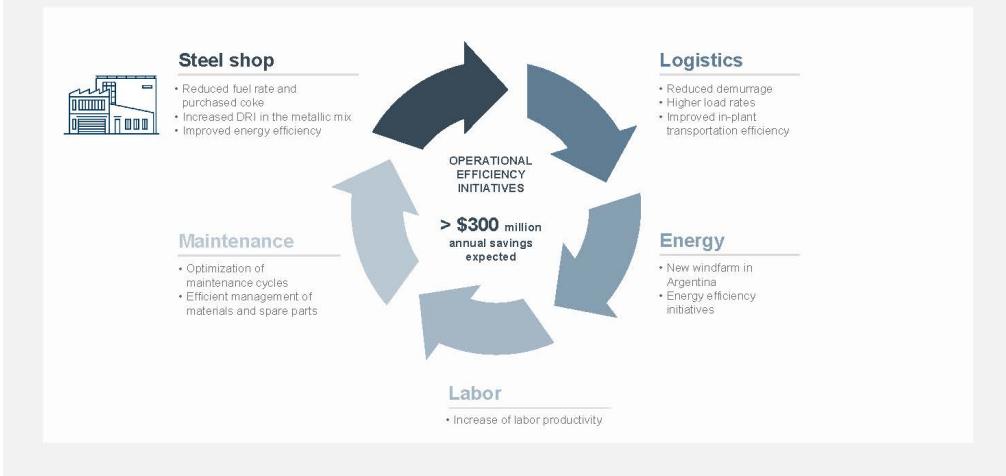
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# Enhancing Operational Efficiency



## Enhancing Operational Efficiency

New initiatives to decrease production costs



## Enhancing Operational Efficiency

Intensive use of IT solutions



### NEXT30 PROJECT (Jan 23 – Jun 25)

- \$80 million savings currently validated.
- Roadmap, technology and payback assessed by McKinsey.
- **Main Initiatives:**
  - Control Towers (Maintenance, Supply Chain Planning, Logistics).
  - Industrial Data Lake, Predictive Maintenance, Video Analytics.
  - Cloud Strategy & Industrial Internet of Things (IIoT).
  - Industrial Cybersecurity.
  - SAP HANA Migration.

### NEXT30 PLUS PROJECT (Jul 25 – Dec 27)

- Additional \$90 million payback expected.
- **Main Initiatives:**
  - Digital assistants (Agentic AI & Copilot), Digital Twins & Simulation, Machine Learning-assisted apps, Citizen Data Scientists (empowered users).
  - Hyperconnectivity (5G), Cloud optimization.
  - Industrial Core (Intelligent Asset Management, Quality, Scrap 4.0).
  - Logistics Map optimization and new Control Towers (Railway, Ports).
  - SAP RISE migration, new Cost System & Budgeting.

# Conclusion



## Conclusion

A leading steel company in the Americas with a consistent growth track record.

Well positioned in the USMCA region to capitalize on the regionalization of supply chains.

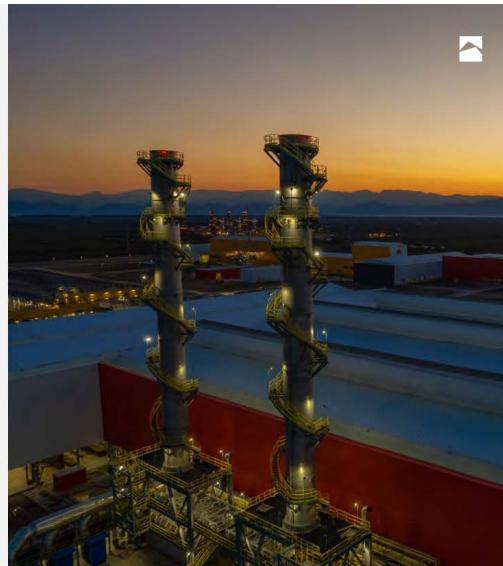
Continued efficiency improvements remain a priority for Usiminas.

Favorable prospects in Argentina, supported by healthy macroeconomic fundamentals.

New initiatives driving productivity and efficiency.

Commitment to delivering sustainable long-term shareholder value.

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# Thank You

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